

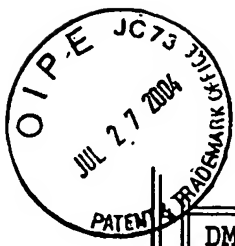


ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	FLUOROPOLYMER BONDING																																																																																																																
<p>Application Number: 10/826182</p> <p>Confirmation Number: 9804</p> <p>First Named Applicant: Naiyong Jing</p> <p>Attorney Docket Number: 56211US008</p> <p>Art Unit: 1773</p> <p>Search string: (2789063 or 3558345 or 3563871 or 4112139 or 4164463 or 4186084 or 4233421 or 4261800 or 4338237 or 4613653 or 4775449 or 4824692 or 4912171 or 5051312 or 5086123 or 5262490 or 5285002 or 5320789 or 5419968 or 5470617 or 5478652 or 5580616 or 5656121 or 5658671 or 5734085 or 5859086 or 5882466 or 6117497 or 6255384 or 6630047 or 6685793 or 5284611).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>Init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>DM</td><td>1</td><td>2789063</td><td>1957-04-16</td><td>Purvis et al</td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td>3558345</td><td>1971-01-26</td><td>Baum et al</td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td>3563871</td><td>1971-02-16</td><td>Newman et al</td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td>4112139</td><td>1978-09-05</td><td>Shirk et al</td><td></td><td></td><td></td></tr><tr><td></td><td>5</td><td>4164463</td><td>1979-08-14</td><td>Fang</td><td></td><td></td><td></td></tr><tr><td></td><td>6</td><td>4186084</td><td>1980-01-29</td><td>Fang</td><td></td><td></td><td></td></tr><tr><td></td><td>7</td><td>4233421</td><td>1980-11-11</td><td>Worm</td><td></td><td></td><td></td></tr><tr><td></td><td>8</td><td>4261800</td><td>1981-04-14</td><td>Beckenbaugh et al</td><td></td><td></td><td></td></tr><tr><td></td><td>9</td><td>4338237</td><td>1982-07-06</td><td>Sulzbach et al</td><td></td><td></td><td></td></tr><tr><td></td><td>10</td><td>4613653</td><td>1986-09-23</td><td>Kitchens et al</td><td></td><td></td><td></td></tr><tr><td></td><td>11</td><td>4775449</td><td>1988-10-04</td><td>Dumas et al</td><td></td><td></td><td></td></tr><tr><td></td><td>12</td><td>4824692</td><td>1989-04-25</td><td>Gillick et al</td><td></td><td></td><td></td></tr><tr><td>DM</td><td>13</td><td>4912171</td><td>1990-03-27</td><td>Grootaert et al</td><td></td><td></td><td></td></tr></tbody></table>		Init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	DM	1	2789063	1957-04-16	Purvis et al					2	3558345	1971-01-26	Baum et al					3	3563871	1971-02-16	Newman et al					4	4112139	1978-09-05	Shirk et al					5	4164463	1979-08-14	Fang					6	4186084	1980-01-29	Fang					7	4233421	1980-11-11	Worm					8	4261800	1981-04-14	Beckenbaugh et al					9	4338237	1982-07-06	Sulzbach et al					10	4613653	1986-09-23	Kitchens et al					11	4775449	1988-10-04	Dumas et al					12	4824692	1989-04-25	Gillick et al				DM	13	4912171	1990-03-27	Grootaert et al			
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	15	5086123	1992-02-04	Guenthner et al	
	16	5262490	1993-11-16	Kolb et al	
	17	5285002	1994-02-08	Grootaert	
	18	5320789	1994-06-14	Nishii et al	
	19	5419968	1995-05-30	Okada et al	
	20	5470617	1995-11-28	Nishii et al	
	21	5478652	1995-12-26	Grootaert et al	
	22	5580616	1996-12-03	Niino et al	
	23	5656121	1997-08-12	Fukushi	
	24	5658671	1997-08-19	Fukushi	
	25	5734085	1998-03-31	Coggio et al	
	26	5859086	1999-01-12	Freund et al	
	27	5882466	1999-03-16	Grootaert et al	
	28	6117497	2000-09-12	Murahara et al	
	29	6255384	2001-07-03	McCarthy et al	
	30	6630047	2003-10-07	Jing et al	B2
✓	31	6685793	2004-02-03	Jing	B2
DM	32	5284611	1994-02-08	Grootaert et al	

Signature

Examiner Name	Date
/Daniel McNally/	11/16/2006

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/826182
Filing Date	April 16, 2004
First Named Inventor	Jing, Naiyong
Art Unit	1773
Examiner Name	
Attorney Case Number	56211US008

Foreign Patent Documents

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (If known)				
DM	B1	EP	0 867 785 A2	09/30/1998			
	B2	JP	03 093874A	04/18/1991			Abstract only
	B3	JP	06-279590	10/04/1994			Abstract only
	B4	JP	70-96575	04/11/1995			Abstract only
	B5	JP	07-179628	07/18/1995			Abstract only
	B6	JP	07-179636	07/18/1995			Abstract only
	B7	JP	09-193164	07/29/1997			Abstract only
	B8	JP	2000-256488	09/19/2000			Abstract only
DM	B9	PCT	WO 96/05965 A1	02/29/1996			

OTHER DOCUMENTS

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
DM	C1	<u>Appl. Phys. Lett.</u> , Vol. 54, No. 1, January 2, 1989, ©1988 American Institute of Physics, "Ablation of Polytetrafluoroethylene (Teflon) with Femtosecond UV Excimer Laser Pulses", S. Küper and M. Stuke, p. 4-6	
DM	C2	<u>Appl. Phys. Lett.</u> , Vol 63, No. 25, December 20, 1993, "Surface Modification and Metallization of Fluorocarbon Polymers by Excimer Laser Processing", H. Niino and A. Yabe	
DM	C3	DATABASE WPI, Week 8411, Derwent Publications, Ltd., London, GB: AN 1984-066964, XP002209025 & Research Disclosure, NR. 238006, Kenneth Mason Publications, Vol. 238, No. 006, 1984, Hampshire, UK	
DM	C4	<u>Chemistry Letters</u> , pp. 1637-1638, 1993; ©The Chemical Society of Japan, "Endowment With The Wettability On The Surface of Tetrafluoroethylene-Perfluoroalkyl Vinyl Ether Copolymer By Excimer Laser Irradiation"; Atsushi Okada, Yasuo Negishi, Yuichi Shimizu, Shun'ichi Sugimoto, Masanobu Nishii, and Shunichi Kawanishi	

*Examiner: /Daniel McNally/

Date Considered: 11/16/2006

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Substitute for form 1449/PTO (modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Page 2 of 3	Application Number	10/826182
	Filing Date	April 16, 2004
	First Named Inventor	Jing, Nalyong
	Art Unit	1773
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	Attorney Case Number	56211US008

OTHER DOCUMENTS			
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DM	C5	Elsevier, <u>Applied Surface Science</u> 109/110(1997) p. 222-226, "Excimer Laser Induced Surface Chemical Modification of Polytetrafluoroethylene", K. Révész, B. Hopp, Z. Bor	
	C6	Brewis, D. M. in: "Surface Analysis and Pretreatment of Plastics and Metals", Applied Science Publishers, New York, 1982, p. 1-11	
	C7	Siperko, L.M.; Thomas, R.R.; <u>Journal Adhesion Sci. Technol.</u> 1989, Vol. 3, p. 157	
	C8	Rye, R.R.; Arnold, G.W.; <u>Langmuir</u> , 1989, Vol. 5, p. 1331	
	C9	Clark, D.T.; Hutton, D.R.; <u>Journal Polym.Sci., Polym. Chem. Ed.</u> , 1987, vol. 25, p. 2643	
	C10	Weismann, S.I.; <u>Journal Phys. Chem.</u> , 1954, Vol. 22, p. 1135	
	C11	Yao, T.; Musha, S.; Munemori, M.; <u>Chemistry Letters</u> , 1974, p. 939, published by the Chemical Society of Japan	
	C12	Allmer, K.; Feiring, A.E.; <u>Macromolecules</u> 1991, Vol. 24, p. 5487	
	C13	Costello, C.A.; McCarthy, T.J.; <u>Macromolecules</u> 1984, Vol. 17, p. 2941	
	C14	Iqbal, Z.; Ivory, D.M.; Szobota, J.S.; Elsenbaumer, R.L.; Baughman, R.H.; <u>Macromolecules</u> , 1986, Vol. 19, p.2992	
	C15	Kiplinger, J.L.; Richmond, T.G.; Osterberg, C.E.; <u>Chemical Reviews</u> , 1994, Vol. 94, p.341	
	C16	MacNicol, D.D.; Robertson, C.D.; <u>Nature</u> , March 3, 1988, Vol. 332, p. 59, "New and unexpected reactivity of saturated fluorocarbons"	
	C17	Cooper, D.L.; Allan, N.L.; Powell, R.L.; <u>Journal of Fluorine Chemistry</u> , 1990, Vol. 49, p.421, "Theoretical Studies of Fluorocarbons"	
↓	C18	Marsella, J.A.; Gilicinski, A.G.; Coughlin, A.M.; Pez, G.P.; <u>Journal Organic Chemistry</u> , 1992, Vol. 57, p. 2856, "Selective Reduction of Saturated Perfluorocarbons"	
DM	C19	Burdeniuc, J.; Chupka, W.; Crabtree, R.H.; <u>Journal Am. Chem. Soc.</u> , 1995, Vol. 117, p. 10119, "New Reaction of Saturated Fluorocarbons:Partial Reduction by NH ₃ with Hg Photosensitization"	

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Substitute for form 1449A/PTO (modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) Page 3 of 3	Application Number	10/826182
	Filing Date	April 16, 2004
	First Named Inventor	Jing, Naiyong
	Art Unit	1773
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OTHER DOCUMENTS			
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
DM	C20	Burdeniuc, J.; Crabtree, R.H.; <u>Science</u> , January 19, 1996, Vol. 271, p. 340, "Mineralization of Chlorofluorocarbons and Aromatization of saturated Fluorocarbons by a Convenient Thermal Process"	
↓	C21	Kaprinidis, N.A.; Turro, N.J.; <u>Tetrahedron Letters</u> , 1996, Vol. 37, p. 2373, "Photosensitized Defluorination of Saturated Perfluorocarbons"	
↓	C22	Plueddemann, E.P.; <u>Silane Coupling Agents</u> , 1982, Plenum Press, NY, pp. 188-205	
↓	C23	Plueddemann, E.P.; <u>Silane Coupling Agents</u> , Second Edition, 1991, Plenum Press, NY, pp. 101-113	
↓	C24	<u>Chemlok® 607</u> , "Silicone Rubber & Specialty Elastomer Adhesive", Lord Corporation, 2000	
DM	C25	<u>Semiconductor International</u> , 11, Burggraaf, Pieter, No. 8, p. 55 (July, 1988)	

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Application Number

10/826182

Filing Date

April 16, 2004

First Named Inventor

Jing, Naiyong

Art Unit

1773

Examiner Name

Unknown

Attorney Case Number

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Foreign Patent Documents

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		Ctry. Code	Number-KindCode (If known)				
DM	B1	WO	00/49103	08/24/2000	OHASHI ET AL		

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/Daniel McNally/

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First Named Inventor

Jing, Nalyong

Art Unit

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Examiner Name

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		Doc. Number-(Kind Code if Known)			
DM	A1	US- 4,780,358	10-25-1988		
DM	A2	US- 5,389,728	02-14-1995		

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DM	B1	EP	0 228 365 A2	07-08-1987			
↓	B2	EP	0 760 385 A1	03-05-1997			
↓	B3	PCT	WO88/05449	07-28-1988			
DM	B4	PCT	WO02/094911A2	11-28-2002			

OTHER DOCUMENTS

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DM	C1	"Reactions of some anhydride-containing copolymers with γ -aminopropyltriethoxysilane," Rzaev et al., Polymer, Vol. 42 (2001), pgs. 5599-5606.	
DM	C2	Chemical Abstracts Service, XP-002361749 Reference, JP Pat. No. 61255853A2, Dated: 05-29-1987.	

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/Daniel McNally/

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